

Substitute for form 1449A/PTO  
(Revised 10/2001)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number 10/029,065  
Filing Date December 20, 2001  
First Named Inventor Kipp  
Group Art Unit 1638  
Examiner Name Not yet assigned  
Attorney Docket Number 5839-2 (42960/196219)

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**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
OK	1	ABUIN, A., et al., "Genetic Analysis of Mouse Embryonic Stem Cells Bearing <i>Msh3</i> and <i>Msh2</i> Single and Compound Mutations," <i>Molecular and Cellular Biology</i> , January 2000, pp. 149-157, Vol. 20(1), American Society for Microbiology, USA.	
	2	ADE, J., et al., "Four Mismatch Repair Paralogues Coexist in <i>Arabidopsis thaliana</i> : <i>AtMSH2</i> , <i>AtMSH3</i> , <i>AtMSH6-1</i> and <i>AtMSH6-2</i> ," <i>Mol. Gen. Genet.</i> , 1999, pp. 239-249, Vol. 262, Springer-Verlag.	
	3	ALANI, E., et al., "Genetic and Biochemical Analysis of <i>Msh2p-Msh6p</i> : Role of ATP Hydrolysis and <i>Msh2p-Msh6p</i> Subunit Interactions in Mismatch Base Pair Recognition," <i>Molecular and Cellular Biology</i> , May 1997, pp. 2436-2447, Vol. 17(5), American Society for Microbiology, USA.	
	4	ALANI, E., et al., "Interaction Between Mismatch Repair and Genetic Recombination in <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> , May 1994, pp. 19-39, Vol. 137, Genetics Society of America, USA.	
	5	COLE-STAUS, A., et al., "Targeted Gene Repair Directed by the Chimeric RNA/DNA Oligonucleotide in a Mammalian Cell-Free Extract," <i>Nucleic Acids Research</i> , 1999, pp. 1323-1330, Vol. 27(5), Oxford University Press.	
	6	CULLIGAN, K., and J. HAYS, "Arabidopsis MutS Homologs - <i>AtMSH2</i> , <i>AtMSH3</i> , <i>AtMSH6</i> , and a Novel <i>AtMSH7</i> - Form Three Distinct Protein Heterodimers with Different Specificities for Mismatched DNA," <i>The Plant Cell</i> , June 2000, pp. 991-1002, Vol. 12, American Society of Plant Physiologists, USA.	
OK	7	CULLIGAN, K., and J. HAYS, "DNA Mismatch Repair in Plants: An <i>Arabidopsis thaliana</i> Gene That Predicts a Protein Belonging to the MSH2 Subfamily of Eukaryotic MutS Homologs," <i>Plant Physiol.</i> , 1997, pp. 833-839, Vol. 115.	

Examiner Signature

*[Signature]*

Date

Considered

8 June 2004

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OK	8	CULLIGAN, K., et al., "Evolutionary Origin, Diversification and Specialization of Eukaryotic MutS Homolog Mismatch Repair Proteins," <i>Nucleic Acids Research</i> , 2000, pp. 463-471, Vol. 28, Oxford University Press.	
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	10	HOHN, B., and H. PUCHTA, "Gene Therapy in Plants," <i>Proc. Natl. Acad. Sci. USA</i> , July 1999, pp. 8321-8323, Vol. 96.	
	11	HOLMES, J., et al., "Strand-Specific Mismatch Correction in Nuclear Extracts of Human and <i>Drosophila melanogaster</i> Cell Lines," <i>Proc. Natl. Acad. Sci. USA</i> , August 1990, pp. 5837-5841, Vol. 87.	
	12	MARSISCHKY, G., et al., "Redundancy of <i>Saccharomyces cerevisiae</i> MSH3 and MSH6 in MSH2-dependent Mismatch Repair," <i>Genes and Development</i> , 1996, pp. 407-420, Vol. 10(4), Cold Spring Harbor Laboratory Press, USA.	
	13	MENGISTE, T., and J. PASZKOWSKI, "Prospects for the Precise Engineering of Plant Genomes by Homologous Recombination," <i>Biol. Chem.</i> , 1999, pp. 749-758, Vol. 380, Walter de Gruyter, Berlin.	
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	15	RAYSSIGUIER, C., et al., "The Barrier to Recombination Between <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> is Disrupted in Mismatch-Repair Mutants," <i>Nature</i> , November 1989, pp. 396-401, Vol. 342(6248).	
	16	REENAN, R., and R. KOLODNER, "Characterization of Insertion Mutations in the <i>Saccharomyces cerevisiae</i> MSH1 and MSH2 Genes: Evidence for Separate Mitochondrial and Nuclear Functions," <i>Genetics</i> , December 1992, pp. 975-985, Vol. 132(4), Genetics Society of America, USA.	
	17	RICE, M., et al., "Genetic Repair of Mutations in Plant Cell-Free Extracts Directed by Specific Chimeric Oligonucleotides," <i>Plant Physiology</i> , June 2000, pp. 427-437, Vol. 123, American Society of Plant Physiologists, USA.	
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	22	GenBank Report for Accession No. AF109243, Direct Submission on November 24, 1998.	
	23	GenBank Report for Accession No. AJ007791, Direct Submission on July 9, 1998.	
	24	GenBank Report for Accession No. AJ238785, Direct Submission on May 4, 1999.	
OK	25	GenBank Report for Accession No. AJ245967, Direct Submission on August 20, 1999.	

Examiner  
Signature

*David Jure*

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8 June 2004

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